



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Adress: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,829	07/10/2003	Franck Le	088245-0111	8920
23524	7590	08/01/2008		
FOLEY & LARDNER LLP 150 EAST GILMAN STREET P.O. BOX 1497 MADISON, WI 53701-1497			EXAMINER	
			PALIWAL, YOCESH	
			ART UNIT	PAPER NUMBER
			2135	
			MAIL DATE	DELIVERY MODE
			08/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/615,829	<b>Applicant(s)</b> LE ET AL.
	<b>Examiner</b> YOGESH PALIWAL	<b>Art Unit</b> 2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 02 May 2008.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 29-47 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 29-47 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 6/12/2008

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

#### **DETAILED ACTION**

- Applicant's amendment filed on February 1, 2008 has been entered. The amendment filed on February 1, 2008 was subjected to restriction on April 21, 2008. Applicant responded to the restriction on May 2, 2008.

#### ***Election/Restrictions***

1. Applicant's election without traverse of Species III (Claims 29-47) in the reply filed on May 2, 2008 is acknowledged. Applicant has also canceled claims 48-89. Claims 1-28 have been previously canceled. As a result, Claims 29-47 are examined in this application.

#### ***Response to Arguments***

2. Applicant's arguments, see pages 23-24, filed on February 1, 2008, with respect to rejection of claims 29-65 under 35 U.S.C. 112, first paragraph, have been fully considered and are persuasive. The U.S.C. 112, first paragraph rejection of claims 29-47 (other claims have been canceled) has been withdrawn.

3. Applicant's arguments with respect to claims 29-47 have been considered but are moot in view of the new ground(s) of rejection (see below).

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 29-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Montenegro et al ("Statistically Unique and Cryptographically Verifiable (SUCV) identifiers and addresses") in view of Yu et al. (US 6,067,621), hereinafter "Yu".

Regarding **Claims 29, 36 and 42**, Montenegro discloses a method, corresponding computer program and a system of addressing the identifier ownership problem by using characteristics of Statistic Uniqueness and Cryptographic Verifiability wherein the SUCV addresses can solve the address ownership problem (Introduction). The system of Montenegro a processor; a communication interface operably coupled to the processor (Montenegro section 6 and section 7) and a computer program for identifying a secret value (private key) at a first device (Section 4), the public key system contains a public key and private key pair; calculating a first address value based on the identified secret value (Section 5.3); generating an address as a concatenation of a second address value and the calculated first address value (Section 5.2); sending the generated address from the first device to a second device (sucvP3 section 6.2); receiving a request to confirm ownership of the generated address from the second device at the first device (sucvP1 section 6.2); calculating a first value based on the identified secret value and the identified number of confirmations performed (section 6.2); and sending a first message from the first device to the second device, the first message including the calculated first value so that the second device can confirm ownership of the generated address by the first device (section 6.2 when CN receives the sucvP3 and verifies the signature).

Montenegro discloses using asymmetric key pair to establish the identity of the host. However, utilizing one time password for establishing identity was well known at the time invention was filed. Yu discloses utilizing one time password for establishing identity. Yu discloses identifying a number of identification allowed (see, Fig. 6, Step 660, Counter Value N); and identifying a secret value at a first device (Fig. 6, Numeral 630), wherein the number of identifications allowed is based on a maximum number of times the secret value may be used before the secret value is changed (see, Fig. 6, Numerals 640 and 660 and also see, Column 10, lines 43-61, system uses a new random number when N reaches zero) and further discloses at the server side identifying a number of confirmations previously performed between the first device and the second device (see Fig. 7, and also see, Column 10, lines 63-67).

Therefore, it would have been obvious at the time invention was made to a person of ordinary skill in the art to utilize, in the system of Montenegro, a one time password technique, as taught by Yu, as an identifier for appending with the address of host address instead of a hash of a public key because one-time password are good for protecting against passive attacks and they are also easy to implement then zero interaction identification protocols.

Regarding **Claims 30, 37 and 43**, the combination of Montenegro and Yu further comprising receiving a router advertisement message including an address prefix, wherein the second address value comprises the address prefix (see, Montenegro, Section 5.2).

Regarding **Claims 31, 38 and 44**, the combination of Montenegro and Yu further

discloses repeating (f), (g), (h), (i) (see, Montenegro, last paragraph section 6.2).

Regarding **Claims 32, 39 and 45**, the combination of Montenegro and Yu further discloses wherein the first message further includes the identified number of confirmation performed (see, Yu, Fig. 7, Numerals 700 and 710).

Regarding **Claim 33, 40 and 46**, the combination of Montenegro and Yu further discloses comparing the identified number of confirmations performed with the identified number of identification allowed; and based on outcome of the comparison, identifying a second secret value at the first device (see, Yu, Column 10, lines 43-61, system uses a new random number when N reaches zero).

Regarding **Claim 34**, the combination of Montenegro and Yu further discloses repeating (c)-(i) replacing the identified secret value with the identified second secret value (see, Montenegro, section 6.4 and Vu, Fig. 6).

Regarding **Claims 35, 41 and 47**, the combination of Montenegro and Yu further discloses wherein the first message comprises a binding update message sent using a mobile Internet protocol version 6 protocol (section 6.2).

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOGESH PALIWAL whose telephone number is (571)270-1807. The examiner can normally be reached on M-F: 7:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2135

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. P./  
Examiner, Art Unit 2135

/KimYen Vu/  
Supervisory Patent Examiner, Art Unit 2135